

INPUT SET: S9549.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1 SEQUENCE LISTING
23 (1) General Information:
45 (i) APPLICANT: Deboer, Herman A.
6 Strijker, Rein
7 Heyneker, Herbert L.
8 Platenburg, Gerald
9 Lee, Sang He
10 Pieper, Frank
11 Krimpenfort, Paul J.A.
12

ENTERED

13 (ii) TITLE OF INVENTION: Production of Recombinant Polypeptides
14 by Bovine Species and Transgenic Methods
1516 (iii) NUMBER OF SEQUENCES: 38
1718 (iv) CORRESPONDENCE ADDRESS:
19 (A) ADDRESSEE: Townsend and Townsend and Crew
20 (B) STREET: One Market Plaza, Steuart Tower, Suite 2000
21 (C) CITY: San Francisco
22 (D) STATE: California
23 (E) COUNTRY: USA
24 (F) ZIP: 94105
2526 (v) COMPUTER READABLE FORM:
27 (A) MEDIUM TYPE: Floppy disk
28 (B) COMPUTER: IBM PC compatible
29 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
30 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
3132 (vi) CURRENT APPLICATION DATA:
33 (A) APPLICATION NUMBER: US 08/476,798
34 (B) FILING DATE: 07-JUN-1995
35 (C) CLASSIFICATION:
3637 (vii) PRIOR APPLICATION DATA:
38 (A) APPLICATION NUMBER: US 08/077,788
39 (B) FILING DATE: 15-JUN-1993
4041 (vii) PRIOR APPLICATION DATA:
42 (A) APPLICATION NUMBER: US 07/895,956
43 (B) FILING DATE: 15-JUN-1992
4445 (vii) PRIOR APPLICATION DATA:
46 (A) APPLICATION NUMBER: US 07/619,131

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/476,798DATE: 03/26/96
TIME: 17:57:28

INPUT SET: S9549.raw

47 (B) FILING DATE: 27-NOV-1990
48
49 (vii) PRIOR APPLICATION DATA:
50 (A) APPLICATION NUMBER: US 07/444,745
51 (B) FILING DATE: 01-DEC-1989
52
53 (viii) ATTORNEY/AGENT INFORMATION:
54 (A) NAME: Liebescheutz, Joe O.
55 (B) REGISTRATION NUMBER: 37,505
56 (C) REFERENCE/DOCKET NUMBER: 16994-003125
57
58 (ix) TELECOMMUNICATION INFORMATION:
59 (A) TELEPHONE: 415-543-9600
60 (B) TELEFAX: 415-543-5043
61
62
63 (2) INFORMATION FOR SEQ ID NO:1:
64
65 (i) SEQUENCE CHARACTERISTICS:
66 (A) LENGTH: 2319 base pairs
67 (B) TYPE: nucleic acid
68 (C) STRANDEDNESS: single
69 (D) TOPOLOGY: linear
70
71 (ii) MOLECULE TYPE: DNA (genomic)
72
73
74 (ix) FEATURE:
75 (A) NAME/KEY: sig_peptide
76 (B) LOCATION: 1..54
77
78 (ix) FEATURE:
79 (A) NAME/KEY: mat_peptide
80 (B) LOCATION: 55..2130
81
82 (ix) FEATURE:
83 (A) NAME/KEY: CDS
84 (B) LOCATION: 1..2130
85
86
87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
88
89 GGA CTT GTC TTC CTC GTC CTG CTG TTC CTC GGG GGC CTC GGA CTG TGT 48
90 Gly Leu Val Phe Leu Val Leu Leu Phe Leu Gly Ala Leu Gly Leu Cys
91 -18 -15 -10 -5
92
93 CTG GCT GGC CGT AGG AGA AGG AGT GTT CAG TGG TGC GCC GTA TCC CAA 96
94 Leu Ala Gly Arg Arg Arg Ser Val Gln Trp Cys Ala Val Ser Gln
95 1 5 10
96
97 CCC GAG GCC ACA AAA TGC TTC CAA TGG CAA AGG AAT ATG AGA AAA GTG 144
98 Pro Glu Ala Thr Lys Cys Phe Gln Trp Gln Arg Asn Met Arg Lys Val
99 15 20 25 30

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/476,798**

DATE: 03/26/96
TIME: 17:57:30

INPUT SET: S9549.raw

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/476,798DATE: 03/26/96
TIME: 17:57:33

INPUT SET: S9549.raw

153	GTG GAC AAG TTC AAA GAC TGC CAT CTG GCC CGG GTC CCT TCT CAT GCC	816
154	Val Asp Lys Phe Lys Asp Cys His Leu Ala Arg Val Pro Ser His Ala	
155	240 245 250	
156		
157	GTT GTG GCA CGA AGT GTG AAT GGC AAG GAG GAT GCC ATC TGG AAT CTT	864
158	Val Val Ala Arg Ser Val Asn Gly Lys Glu Asp Ala Ile Trp Asn Leu	
159	255 260 265 270	
160		
161	CTC CGC CAG GCA CAG GAA AAG TTT GGA AAG GAC AAG TCA CCG AAA TTC	912
162	Leu Arg Gln Ala Gln Glu Lys Phe Gly Lys Asp Lys Ser Pro Lys Phe	
163	275 280 285	
164		
165	CAG CTC TTT GGC TCC CCT AGT GGG CAG AAA GAT CTG CTG TTC AAG GAC	960
166	Gln Leu Phe Gly Ser Pro Ser Gly Gln Lys Asp Leu Leu Phe Lys Asp	
167	290 295 300	
168		
169	TCT GCC ATT GGG TTT TCG AGG GTG CCC CCG AGG ATA GAT TCT GGG CTG	1008
170	Ser Ala Ile Gly Phe Ser Arg Val Pro Pro Arg Ile Asp Ser Gly Leu	
171	305 310 315	
172		
173	TAC CTT GGC TCC GGC TAC TTC ACT GCC ATC CAG AAC TTG AGG AAA AGT	1056
174	Tyr Leu Gly Ser Gly Tyr Phe Thr Ala Ile Gln Asn Leu Arg Lys Ser	
175	320 325 330	
176		
177	GAG GAG GAA GTG GCT GCC CGG CGT GCG CGG GTC GTG TGG TGT GCG GTG	1104
178	Glu Glu Glu Val Ala Ala Arg Arg Ala Arg Val Val Trp Cys Ala Val	
179	335 340 345 350	
180		
181	GGC GAG CAG GAG CTG CGC AAG TGT AAC CAG TGG AGT GGC TTG AGC GAA	1152
182	Gly Glu Gln Glu Leu Arg Lys Cys Asn Gln Trp Ser Gly Leu Ser Glu	
183	355 360 365	
184		
185	GGC AGC GTG ACC TGC TCC TCG GCC TCC ACC ACA GAG GAC TGC ATC GCC	1200
186	Gly Ser Val Thr Cys Ser Ser Ala Ser Thr Thr Glu Asp Cys Ile Ala	
187	370 375 380	
188		
189	CTG GTG CTG AAA GGA GAA GCT GAT GCC ATG AGT TTG GAT GGA GGA TAT	1248
190	Leu Val Leu Lys Gly Glu Ala Asp Ala Met Ser Leu Asp Gly Gly Tyr	
191	385 390 395	
192		
193	GTG TAC ACT GCA TGC AAA TGT GGT TTG GTG CCT GTC CTG GCA GAG AAC	1296
194	Val Tyr Thr Ala Cys Lys Cys Gly Leu Val Pro Val Leu Ala Glu Asn	
195	400 405 410	
196		
197	TAC AAA TCC CAA CAA AGC AGT GAC CCT GAT CCT AAC TGT GTG GAT AGA	1344
198	Tyr Lys Ser Gln Gln Ser Ser Asp Pro Asp Pro Asn Cys Val Asp Arg	
199	415 420 425 430	
200		
201	CCT GTG GAA GGA TAT CTT GCT GTG GCG GTG GTT AGG AGA TCA GAC ACT	1392
202	Pro Val Glu Gly Tyr Leu Ala Val Ala Val Val Arg Arg Ser Asp Thr	
203	435 440 445	
204		
205	AGC CTT ACC TGG AAC TCT GTG AAA GGC AAG AAG TCC TGC CAC ACC GCC	1440

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/476,798DATE: 03/26/96
TIME: 17:57:36

INPUT SET: S9549.raw

206	Ser	Leu	Thr	Trp	Asn	Ser	Val	Lys	Gly	Lys	Lys	Ser	Cys	His	Thr	Ala	
207				450				455						460			
208																	
209	GTG	GAC	AGC	ACT	GCA	GGC	TGG	AAT	ATC	CCC	ATG	GGC	CTG	CTC	TTC	AAC	1488
210	Val	Asp	Arg	Thr	Ala	Gly	Trp	Asn	Ile	Pro	Met	Gly	Leu	Leu	Phe	Asn	
211		465						470						475			
212																	
213	CAG	ACG	GGC	TCC	TGC	AAA	TTT	GAT	GAA	TAT	TTC	AGT	CAA	AGC	TGT	GCC	1536
214	Gln	Thr	Gly	Ser	Cys	Lys	Phe	Asp	Glu	Tyr	Phe	Ser	Gln	Ser	Cys	Ala	
215		480				485						490					
216																	
217	CCT	GGG	TCT	GAC	CCG	AGA	TCT	AAT	CTC	TGT	GCT	CTG	TGT	ATT	GGC	GAC	1584
218	Pro	Gly	Ser	Asp	Pro	Arg	Ser	Asn	Leu	Cys	Ala	Leu	Cys	Ile	Gly	Asp	
219		495			500					505				510			
220																	
221	GAG	CAG	GGT	GAG	AAT	AAG	TGC	GTG	CCC	AAC	AGC	AAT	GAG	AGA	TAC	TAC	1632
222	Glu	Gln	Gly	Glu	Asn	Lys	Cys	Val	Pro	Asn	Ser	Asn	Glu	Arg	Tyr	Tyr	
223			515						520				525				
224																	
225	GGC	TAC	ACT	GGG	GCT	TTC	CGG	TGC	CTG	GCT	GAG	AAT	GCT	GGA	GAC	GTT	1680
226	Gly	Tyr	Thr	Gly	Ala	Phe	Arg	Cys	Leu	Ala	Glu	Asn	Ala	Gly	Asp	Val	
227		530				535				540							
228																	
229	GCA	TTT	GTG	AAA	GAT	GTC	ACT	GTC	TTG	CAG	AAC	ACT	GAT	GGA	AAT	AAC	1728
230	Ala	Phe	Val	Lys	Asp	Val	Thr	Val	Leu	Gln	Asn	Thr	Asp	Gly	Asn	Asn	
231		545				550					555						
232																	
233	AAT	GAG	GCA	TGG	GCT	AAG	GAT	TTG	AAG	CTG	GCA	GAC	TTT	GCG	CTG	CTG	1776
234	Asn	Glu	Ala	Trp	Ala	Lys	Asp	Leu	Lys	Leu	Ala	Asp	Phe	Ala	Leu	Leu	
235		560				565					570						
236																	
237	TGC	CTC	GAT	GGC	AAA	CGG	AAG	CCT	GTG	ACT	GAG	GCT	AGA	AGC	TGC	CAT	1824
238	Cys	Leu	Asp	Gly	Lys	Arg	Lys	Pro	Val	Thr	Glu	Ala	Arg	Ser	Cys	His	
239		575			580					585			590				
240																	
241	CTT	GCC	ATG	GCC	CCG	AAT	CAT	GCC	GTG	GTG	TCT	CGG	ATG	GAT	AAG	GTG	1872
242	Leu	Ala	Met	Ala	Pro	Asn	His	Ala	Val	Val	Ser	Arg	Met	Asp	Lys	Val	
243			595						600				605				
244																	
245	GAA	CGC	CTG	AAA	CAG	GTG	CTG	CTC	CAC	CAA	CAG	GCT	AAA	TTT	GGG	AGA	1920
246	Glu	Arg	Leu	Lys	Gln	Val	Leu	Leu	His	Gln	Gln	Ala	Lys	Phe	Gly	Arg	
247		610					615					620					
248																	
249	AAT	GGA	TCT	GAC	CCG	GAC	AAG	TTT	TGC	TTA	TTC	CAG	TCT	GAA	ACC	1968	
250	Asn	Gly	Ser	Asp	Cys	Pro	Asp	Lys	Phe	Cys	Leu	Phe	Gln	Ser	Glu	Thr	
251		625					630				635						
252																	
253	AAA	AAC	CTT	CTG	TTC	AAT	GAC	AAC	ACT	GAG	TGT	CTG	GCC	AGA	CTC	CAT	2016
254	Lys	Asn	Leu	Leu	Phe	Asn	Asp	Asn	Thr	Glu	Cys	Leu	Ala	Arg	Leu	His	
255		640			645						650						
256																	
257	GGC	AAA	ACA	ACA	TAT	GAA	AAA	TAT	TTG	GGA	CCA	CAG	TAT	GTC	GCA	GGC	2064
258	Gly	Lys	Thr	Thr	Tyr	Glu	Lys	Tyr	Leu	Gly	Pro	Gln	Tyr	Val	Ala	Gly	

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/08/476,798**

DATE: 03/26/96
TIME: 17:57:39

INPUT SET: S9549.raw

Line

Error

Original Text